AUTHOR INDEX TO VOLUME 61

Alam, J. M., 147
Anand, V., 229

Bougeard, D., 439
Bu, L., 298

Chai, J. C., 311
Chao, L.-P., 129
Chen, B., 412
Cheon, S., 22
Choi, S.-K., 492

Dai, Y.-J., 36
Darwish, M., 171
Das, S., 1, 71

Fan, C., 52

Ge, Q., 311

Hahn, D., 492
Harion, J.-L., 439
He, Y. L., 369
He, Z. C., 204
Hossain, Z., 147
Hu, S., 52
Huang, M., 412
Hwang, Y.-H., 329

Kevlahan, N. K.-R., 147
Kihm, K. D., 22
Kim, K. B., 22
Kim, S. K., 116
Kim, S.-O, 492
Kim, Y. H., 22
Kim, Y.-I., 492

Lee, J. S., 22
Lee, J. W., 22
Lee, T.-H., 492
Li, E., 204
Liao, W.-J., 129
Liu, G. R., 204
Luan, H. B., 369

Marck, G., 439
Mathur, S. R., 1, 71
Ming, P., 505
Moukalled, F., 171
Murthy, J. Y., 1, 71

Nemer, M., 439

Oh, H. K., 22
Ormiston, S. J., 91

Pakanen, J. E., 471
Pan, D., 279
Patnaik, B. S. V., 229

Qi, H., 387

Rao, B. N., 229
Ruan, L. M., 387
Russeil, S., 439

Song, J. C., 22
Sun, F., 52
Sun, J., 369

Tan, V., 204
Tao, W. Q., 369
Tao, W.-Q., 36
Tseng, K. J., 298

Vakilipour, S., 91
Vargas, F. M., 311
Vasilyev, O. V., 147

Wang, C.-C., 129
Wang, S. G., 387
Wang, X. Y., 387
Wu, L., 412
Wu, X.-H., 36

Xu, G. X., 204

Yang, L., 52
Yang, M., 259
Yap, Y. F., 311

Zhang, K., 259
Zhang, M., 52, 311
Zhang, W., 505
Zhang, Y., 259
Zhao, J., 298
Zhou, W. J., 369

NUMERICAL HEAT TRANSFER

An International Journal of Computation and Methodology

PART B: FUNDAMENTALS

CONTENTS

Vol. 61 No. 1
2012

1 Finite-Volume Method for Structural Analysis of RF MEMS Devices Using the Theory of Plates **Shankhadeep Das, Sanjay R. Mathur, and Jayathi Y. Murthy**

22 Numerical Method for Accurate Conduction Heat Transfer Prediction in a Coarse Grid System by Using a Filtering Technique **J. C. Song, H. K. Oh, S. Cheon, J. S. Lee, K. D. Kihm, J. W. Lee, K. B. Kim, and Y. H. Kim**

36 MLPG/SUPG Method for Convection-Dominated Problems **Xue-Hong Wu, Yan-Jun Dai, and Wen-Quan Tao**

52 Identification of Plate Surface Geometry: A Numerical and Experimental Study **Chunli Fan, Mingxin Zhang, Shuangxi Hu, Li Yang, and Fengrui Sun**

CONTENTS

Vol. 61 No. 2
2012

71 Finite-Volume Method for Creep Analysis of Thin RF MEMS Devices Using the Theory of Plates **Shankhadeep Das, Sanjay R. Mathur, and Jayathi Y. Murthy**

91 A Coupled Pressure-Based Co-Located Finite-Volume Solution Method for Natural-Convection Flows **S. Vakilipour and S. J. Ormiston**

116 Prameterized Gradient Integration Method for Inverse Heat Conduction Problems **Sun Kyoung Kim**

129 Hybrid Spline Difference Method (HSDM) for Transient Heat Conduction **Chi-Chang Wang, Lu-Ping Chao, and Wu-Jung Liao**

CONTENTS

Vol. 61 No. 3
2012

147 A Multiresolution Model for the Simulation of Transient Heat and Mass Transfer **Jahrul M. Alam, Nicholas K.-R. Kevlahan, Oleg V. Vasilyev, and Zahangir Hossain**

171 Transient Schemes for Capturing Interfaces of Free-Surface Flows **F. Moukalled and M. Darwish**

204 A Novel Alpha Gradient Smoothing Method (αGSM) for Fluid Problems **Eric Li, Vincent Tan, George X. Xu, G. R. Liu, and Z. C. He**

229 Efficient Extraction of Vortex Structures by Coupling Proper Orthogonal Decomposition (POD) and High–Dimensional Model Representation (HDMR) Techniques **Vijay Anand, B. S. V. Patnaik, and B. N. Rao**

CONTENTS

Vol. 61 No. 4
2012

259 A Compact Finite-Difference Scheme Based on the Projection Method for Natural-Convection Heat Transfer **Kun Zhang, Mo Yang, and Yuwen Zhang**

279 A General Boundary Condition Treatment in Immersed Boundary Methods for Incompressible Navier-Stokes Equations with Heat Transfer **Dartzi Pan**

298 Study on Momentum Interpolation Methods with Curvilinear Collocated Grids in Single-Phase and Two-Phase Flows **Lin Bu, Jiyun Zhao, and K. J. Tseng**

311 A Total Concentration Method for Modeling of Deposition **Q. Ge, Y. F. Yap, F. M. Vargas, M. Zhang, and J. C. Chai**

CONTENTS

Vol. 61 No. 5
2012

329 Assessment of Diffusion Operators in a Novel Moving Particle Method **Yao-Hsin Hwang**

369 A Molecular Dynamics and Lattice Boltzmann Multiscale Simulation for Dense Fluid Flows **W. J. Zhou, H. B. Luan, J. Sun, Y. L. He, and W. Q. Tao**

387 The Combined Radiative Integral Equations and Finite-Element Method for Radiation in Anisotropic Scattering Media **X. Y. Wang, H. Qi, S. G. Wang, and L. M. Ruan**

412 A Piecewise Linear Interface-Capturing Volume-of-Fluid Method Based on Unstructured Grids **Meng Huang, Lilong Wu, and Bin Chen**

CONTENTS

Vol. 61 No. 6
2012

439 Topology Optimization Using the SIMP Method for Multiobjective Conductive Problems **Gilles Marck, Maroun Nemer, Jean-Luc Harion, Serge Russeil, and Daniel Bougeard**

471 A Sequential One-Dimensional Solution for the Sideways Heat Equation in a Semi-Infinite, Finite, and Multilayer Slab **Jouko E. Pakanen**

492 Computation of Turbulent Natural Convection in a Rectangular Cavity with the Lattice Boltzmann Method **Seok-Ki Choi, Seong-O Kim, Tae-Ho Lee, Yeong-Il Kim, and Dohee Hahn**

505 Numerical Simulation of Natural Convection and Radiation Heat Transfer in Two-Dimensional Enclosure on Hybrid Grids **Pingjian Ming and Wenping Zhang**

Author Index to Volume 61